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system on chip with UART and parity bit check

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A portable and fault-tolerant microprocessor based on the SPARC V8 architecture
J Gaisler - 2002 - computer.org

... To avoid the large overhead of spare units, the decision was taken to implement on-chip fault-tolerance to both detect and ... Different types of SEU protection has been used for these three groups, based on their usage in the system. ... UARTS Timers IrcCtrl I/O port AMBA APB ...

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[PDF] Concurrent error detection schemes for fault-based side-channel ...

R Karri, K Wu, P Mishra, Y Kim - ... CIRCUITS AND SYSTEMS, 2002 - Citeseer

... Another attack focused on the chip-writing ability of the attacker. ... 1512 IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS, VOL ... Significant work has been done to protect the RAM using parity bit coding, Hamming coding, etc [2 ...

Cited by 44 - Related articles - View as HTML - All 14 versions

Error correction system for n bits using error correcting code designed for fewer ...

DG Abdoo, JD Cabello - US Patent 5,490,155, 1996 - Google Patents

... error detection and correction (EDC) circuits are connected to the system memory array ... 4 of 10 1stSDBCHIP NOMENCLATURE 2nd SOB CHIP MEMORY DATA ON SOB CHIP MEMORY DATA ... 60 61 122 123 124 125 62 63 126 127 CHECK BITS CHECK BITS CHECK BITS 0 0 ...

Cited by 16 - Related articles - All 2 versions

Backup/restore technique in a microcomputer-based encryption system

SB Hamilton, MJ Rosenow - US Patent 5,008,936, 1991 - Google Patents

... 16, 1991 [54] BACKUP/RESTORE TECHNIQUE IN A MICROCOMPUTER-BASED ENCRYPTION SYSTEM [75] Inventors: Scott B. Hamilton, Kirkland; Michael J. Rosenow, Issaquah, both of Wash. [73] Assignee: The Exchange System Limited Partnership, Bellevue, Wash. ...

Cited by 13 - Related articles - All 2 versions

Line support processor for data transfer system

CW Harris, LO Jevons Jr, RA Loskorn - US Patent 4,494,194, 1985 - Google Patents

... DLI MEMORY 550m M2 MEMORY OUTPUT BUS 1 PARITY CHECK 100 ti PARITY ERROR (to 600 ... In asynchronous systems the transmission line is in a "Mark" (binary 1) condition in its ... The "bit oriented" protocols (BOPs) may use only two or three specific control characters for ...

Cited by 19 - Related articles - All 3 versions

Byte-oriented line adapter system

RA Loskorn, PD Biehl, RD Catiller - US Patent 4,514,824, 1985 - Google Patents

... I/O bus 10 in order to particularly identify any given selected buffer 45 memory in the system. ... Bit 0 = 1 Bit 1 = 1 USARTCS = USART Chip Select-UCS TMRCS = Timer Chip Select-TCS ... remaining bits of Register 37 are used for control signals, primarily for the USART and Timer. ...

Cited by 9 - Related articles - All 4 versions

[BOOK] CAN system engineering: from theory to practical applications

W Lawrenz - 1997 - books.google.com

... Timing and Signal Amplitude on the CAN Bus Length 186 5.2.1 CAN Bit Timing 187 ... 4 CAN System Engineering from Theories to Application 82526 (see par.3.1), which today is ... by 82527, Philips followed very soon with a so-called BasicCAN implementation - the 82C200 chip. ...

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[PDF] UART IP Core Specification

J Gorban - Architecture - Iottra.org

... This **UART** core is very similar in operation to the standard 16550 **UART chip** with the main exception being ... In addition, in the 32-bit data bus mode a debug interface is present in the **system** ... 0. • The Line Control Register is set to communication of 8 **bits** of data, no **parity**, 1 stop ...

Cited by 5 - Related articles - View as HTML - All 13 versions

A universal smart transducer interface: TTP/A

H Kopetz, M Holzmann, W Elmenreich - isorc, 2000 - computer.org

... This is important if "on-chip" oscillators are in use at the slaves, since these "on-chip" oscillators have a bad long-term stability. ... 5.1 Communication **System** ... Between two consecutive **UART** bytes there is an inter frame gap (IFG) of 1 **bit** cell. ...

Cited by 62 - Related articles - BL Direct - All 13 versions

[PDF] Serial and UART Tutorial

F Durda - Retrieved November, 2004 - sunet.se

... several patents on the design and they also limited licensing, making it harder for other vendors to provide a **chip** with similar ... Serial and **UART** Tutorial ... This over-simplistic criteria means that if a different operating **system** is used, problems could appear due to subtle differences ...

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